

Jan 11 1998
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search. FH

Access DB# 35952

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: F. Hozier Examiner #: _____ Date: 2/21/01
Art Unit: 1653 Phone Number 305-4508 Serial Number: 091314, 888
Mail Box and Bldg/Room Location: Box 10601 Results Format Preferred (circle): PAPER DISK E-MAIL
0 9A01

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Antiangiogenic peptides
Inventors (please provide full names): Henkin, Jack; Hanin, Fortuna;
Bradley, Michael F.; Calicini, Douglas M.; Schneiders, Andrew J.
Earliest Priority Filing Date: 5/22/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please find any of the amino acids enclosed.

Species 13 of claim 12 was elected.

Thanks.

Ex # 1, 3, 4, 5, 8, 11, 12, 18, 28, 42, 43,
46, 47, 49, & 50-66 anti-angiogenic
activity shown (inhibited h-endothelial cell migration)

Treating cancer, arthritis, psoriasis, angiogenesis
of the eye associated with infection or surgical,
macular degeneration, diabetic retinopathy
Used as anti-angiogenesis (cancer)

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jan</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: <u>4458</u>	AA Sequence (#) <u>5</u>	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>3/5</u>	Bibliographic _____	Dr. Link _____
Date Completed: <u>3/5</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: <u>30</u>	Patent Family _____	WWW/Internet _____
Online Time: <u>+ 45</u>	Other _____	Other (specify) _____

Claims 1-13 are attached

=> fil reg

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STRUCTURE FILE UPDATES: 4 MAR 2001 HIGHEST RN 325683-70-3
DICTIONARY FILE UPDATES: 4 MAR 2001 HIGHEST RN 325683-70-3

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

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conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> d l32 tot sqide can

L32 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2001 ACS
RN 251585-91-8 REGISTRY
CN L-Prolinamide, N-acetyl-N-methylglycylglycyl-L-valyl-L-alloisoleucyl-L-
threonyl-L-norvalyl-L-isoleucyl-L-arginyl-N-ethyl-, mono(trifluoroacetate)
(salt) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 9
NTE modified

type	----- location -----	description
terminal mod.	Gly-1 -	N-acetyl
uncommon	Nva-6 -	-
modification	- -	undetermined modification
modification	Gly-1 -	methyl<Me>

SEQ 1 GGVITXIRP
MF C46 H83 N13 O11 . C2 H F3 O2
SR CA
LC STN Files: CA, CAPLUS

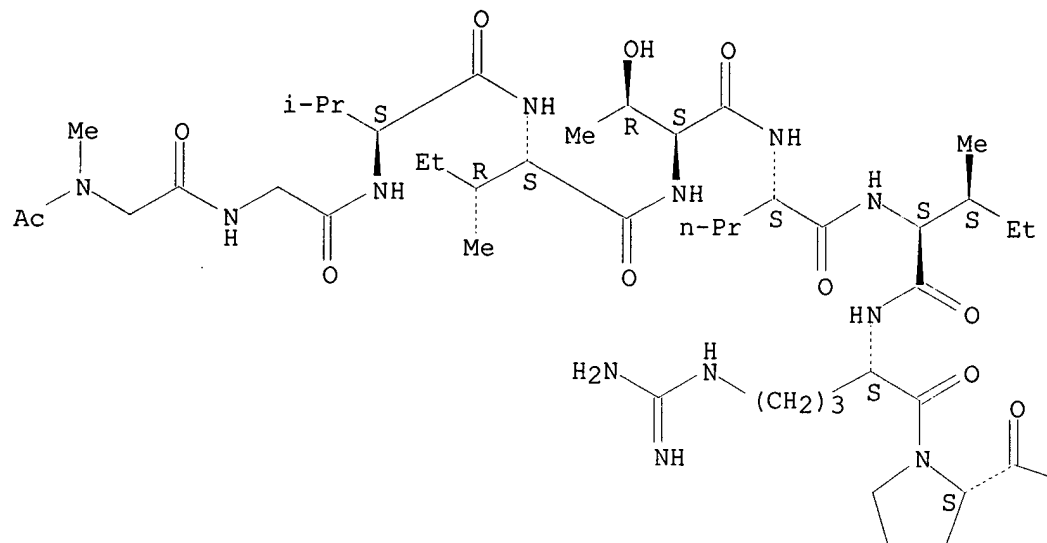
CM 1

CRN 251585-90-7
CMF C46 H83 N13 O11

Absolute stereochemistry.

Point of Contact:
Jan Delany
Librarian-Physical Sciences
CM1 1E01 Tel: 308-4498

PAGE 1-A



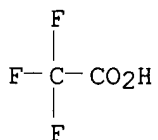
PAGE 1-B

NH₂Et

CM 2

CRN 76-05-1

CMF C2 H F3 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:23191

L32 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 251585-90-7 REGISTRY

CN L-Prolinamide, N-acetyl-N-methylglycylglycyl-L-valyl-L-alloisoleucyl-L-threonyl-L-norvalyl-L-isoleucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

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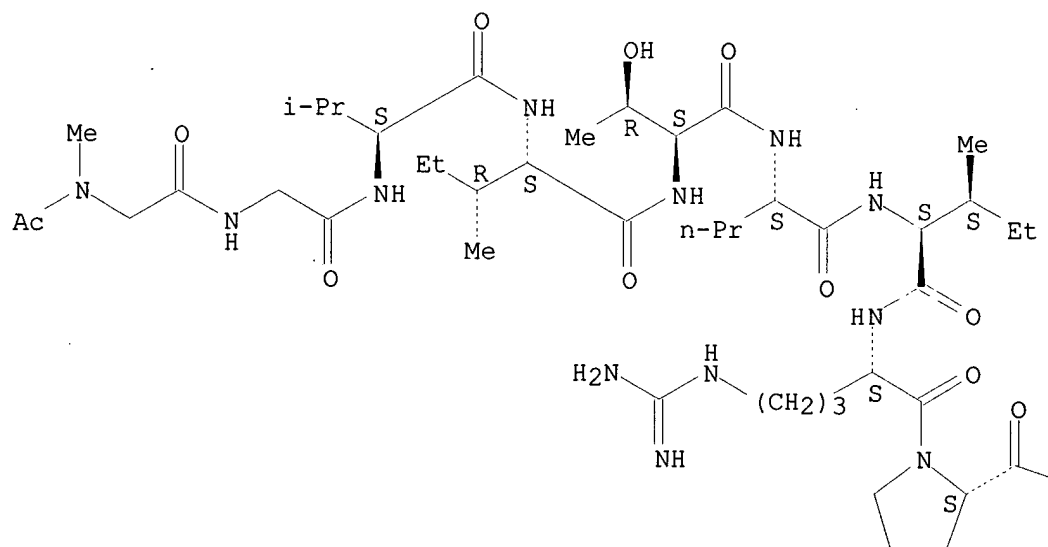
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CI COM

SR CA

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

NHet

L32 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2001 ACS

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FS PROTEIN SEQUENCE; STEREOSEARCH

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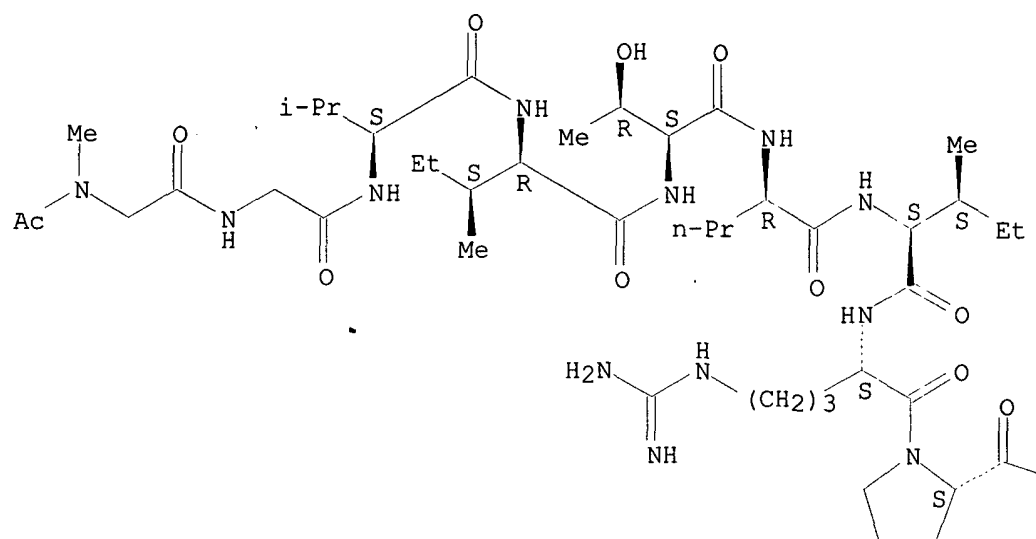
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SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

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PAGE 1-B

NH₂

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REFERENCE 1: 132:23191

L32 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN 251584-12-0 REGISTRY

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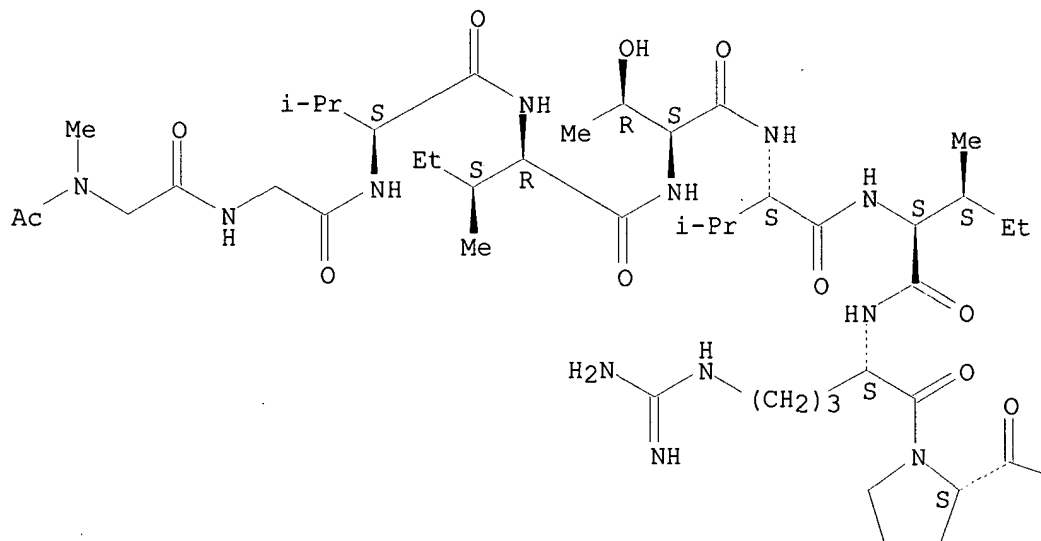
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 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

NH₂

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REFERENCE 1: 132:23191

L32 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2001 ACS

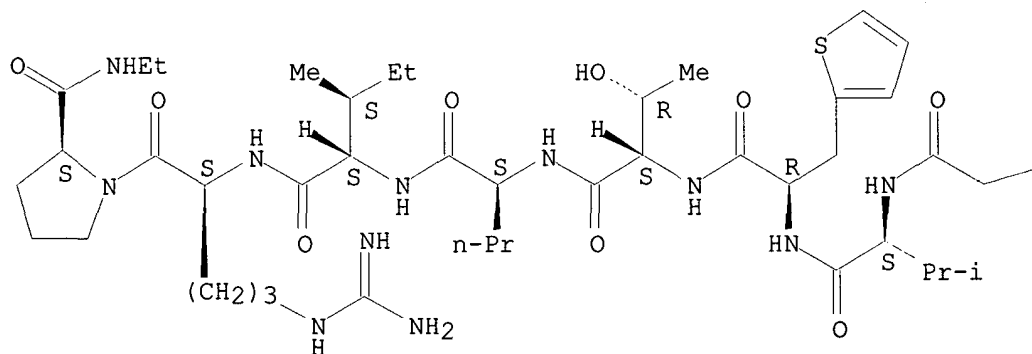
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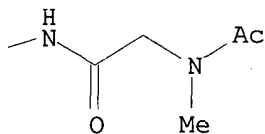
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uncommon	Thi-4	-	-
uncommon	Nva-6	-	-
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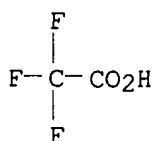
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CRN 76-05-1
CMF C2 H F3 O2



1 REFERENCES IN FILE CA (1967 TO DATE)
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REFERENCE 1: 132:23191

L32 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2001 ACS

RN **251579-95-0** REGISTRY

CN L-Prolinamide, N-acetyl-N-methylglycylglycyl-L-valyl-3-(2-thienyl)-D-alanyl-L-threonyl-L-norvalyl-L-isoleucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

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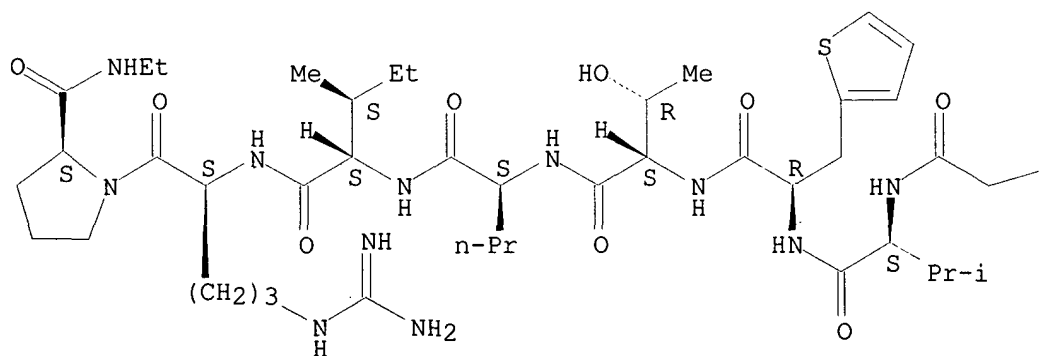
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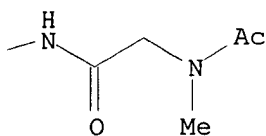
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:23191

L32 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2001 ACS
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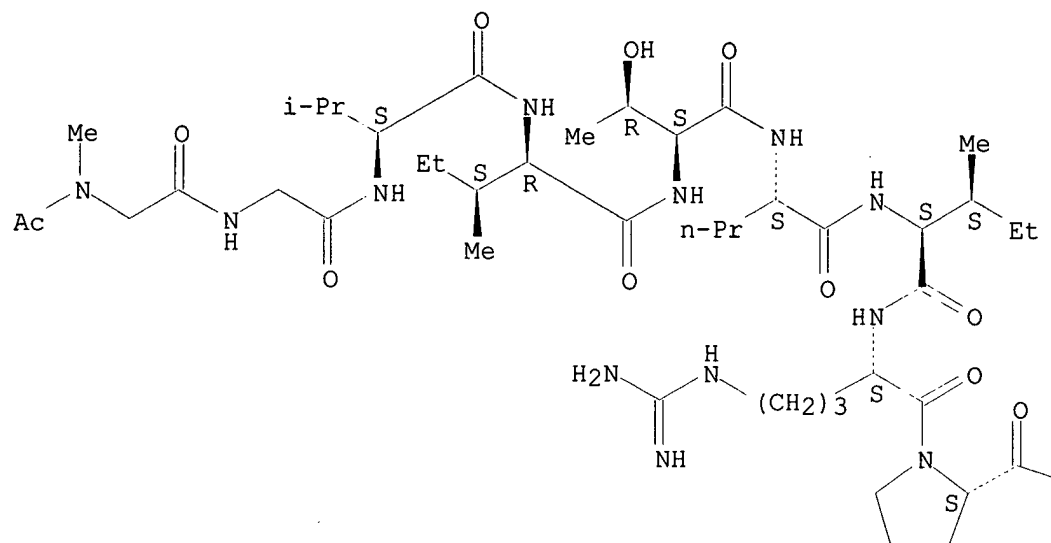
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Absolute stereochemistry.

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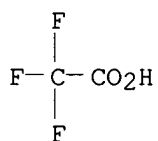
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NH₂Et

CM 2

CRN 76-05-1

CMF C2 H F3 O2



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REFERENCE 1: 132:23191

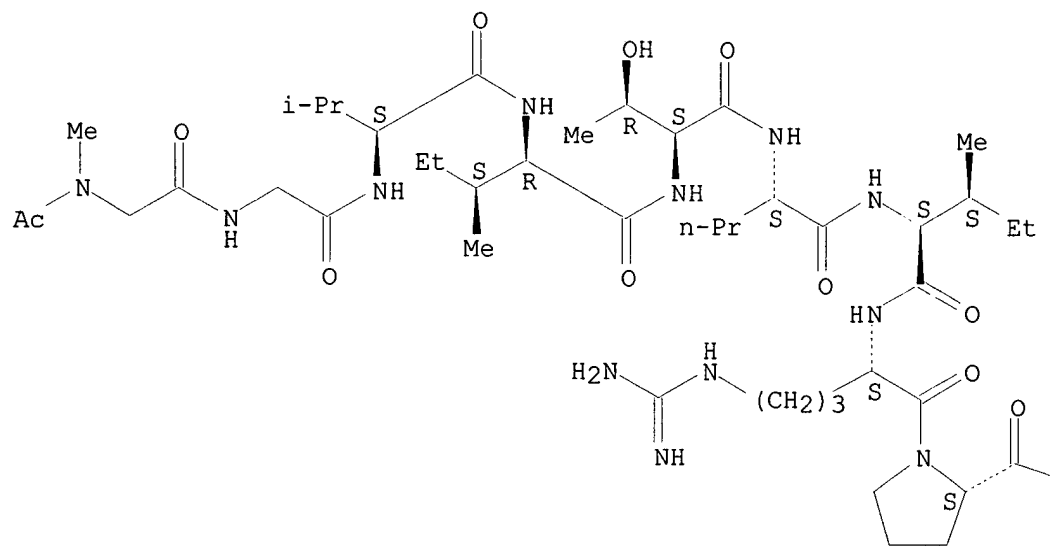
L32 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2001 ACS
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 FS PROTEIN SEQUENCE; STEREOSEARCH
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SEQ 1 GGVITXIRP
 MF C46 H83 N13 O11
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 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

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PAGE 1-B

NHET

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REFERENCE 1: 132:23191

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SAV L14 MOEZIE316A/A

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0 S L32

L34 FILE 'HCAPLUS' ENTERED AT 08:46:14 ON 05 MAR 2001
1 S L32

L35 FILE 'USPATFULL' ENTERED AT 08:46:19 ON 05 MAR 2001
0 S L32

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FILE COVERS 1967 - 5 Mar 2001 VOL 134 ISS 11
FILE LAST UPDATED: 4 Mar 2001 (20010304/ED)

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=> d 134 all

L34 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:764071 HCAPLUS

DN 132:23191

TI Preparation of peptide antiangiogenic drugs

IN Henkin, Jack; Haviv, Fortuna; Bradley, Michael F.; Calvin, Douglas M.; Schneider, Andrew J.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 223 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K014-78

ICS A61K038-39; G01N033-68

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9961476	A1	19991202	WO 1999-US11448	19990521
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	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9944075	A1	19991213	AU 1999-44075	19990521
	EP 1078002	A1	20010228	EP 1999-927091	19990521
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO			
	NO 2000005890	A	20010112	NO 2000-5890	20001121
PRAI	US 1998-83745		19980522		
	US 1999-250574		19990216		
	US 1999-277466		19990326		
	WO 1999-US11448		19990521		
OS	MARPAT 132:23191				
AB	Peptides A0-A1-A2-A3-A4-A5-A6-A7-A8-A9-A10 (A0 is H or an acyl group; A10 is OH or an amino acid amide; A1-9 are amino acyl residues) or their pharmaceutically acceptable salts, esters, solvates, or prodrugs were prepd. for the treatment of angiogenesis. Thus, N-Ac-Sar-Gly-Val-D-Ile-Thr-Nva-Ile-Arg-Pro-NHET was prepd. by the solid-phase method and assayed for in vitro angiogenic activity (87.3% at 20 nM and 76.9 at 10 nM).				
ST	peptide prepn antiangiogenic activity				
IT	Eye, disease (diabetic retinopathy; prepn. of peptide antiangiogenic drugs)				
IT	Eye, disease (macula, degeneration; prepn. of peptide antiangiogenic drugs)				
IT	Angiogenesis inhibitors				
	Antiarthritics				
	Antitumor agents				
	Psoriasis				
	(prepn. of peptide antiangiogenic drugs)				

IT Peptides, preparation
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of peptide antiangiogenic drugs)

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 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of peptide antiangiogenic drugs)

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RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide antiangiogenic drugs)

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RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide antiangiogenic drugs)

IT 59-67-6, Nicotinic acid, reactions 79-09-4, Propionic acid, reactions 88-14-2, 2-Furoic acid 107-92-6, Butanoic acid, reactions 109-85-3, 2-Methoxyethylamine 138-59-0, Shikimic acid 142-62-1, Hexanoic acid, reactions 625-45-6, Methoxyacetic acid 2516-47-4, Cyclopropanemethanamine 3222-56-8, 2-Methylnicotinic acid 4442-85-7, 2-Cyclohexylethylamine 5292-21-7, Cyclohexylacetic acid 5913-13-3, 1-Cyclohexylethylamine 7154-73-6, 1-(2-Aminoethyl)pyrrolidine 16874-33-2, Tetrahydro-2-furoic acid 27578-60-5, 1-(2-Aminoethyl)piperidine 101711-55-1

RL: RCT (Reactant)

(prepn. of peptide antiangiogenic drugs)

RE.CNT 4

RE

- (1) Abbott Lab; WO 9741824 A 1997 HCAPLUS
- (2) Grace W R & Co; EP 0443404 A 1991 HCAPLUS
- (3) Univ Northwestern; WO 9316716 A 1993 HCAPLUS
- (4) Univ Northwestern; WO 9841542 A 1998 HCAPLUS

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FILE 'REGISTRY' ENTERED AT 08:48:10 ON 05 MAR 2001

E 'SAR-GLY-VAL-ILE-THR-NVA-ILE-ARG-PRO'/SQEP

L36 2 S E3
 L37 2 S L36 NOT L32
 L38 282 S G[VN][IA]T.IRP/SQSP
 L39 281 S L38 AND SQL<=20
 SAV L39 MOEZIE316B/A

FILE 'HCAPLUS' ENTERED AT 08:51:31 ON 05 MAR 2001

L40 1 S L39
 L41 1 S L37
 L42 1 S L40,L41,L34

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L42 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2001 ACS

AN 1999:764071 HCAPLUS

DN 132:23191

TI Preparation of peptide antiangiogenic drugs

IN Henkin, Jack; Haviv, Fortuna; Bradley, Michael F.; Calvin, Douglas M.;

Schneider, Andrew J.

PA Abbott Laboratories, USA

SO PCT Int. Appl., 223 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K014-78

ICS A61K038-39; G01N033-68

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9961476	A1	19991202	WO 1999-US11448	19990521
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	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9944075	A1	19991213	AU 1999-44075	19990521
	EP 1078002	A1	20010228	EP 1999-927091	19990521
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PRAI	US 1998-83745		19980522		
	US 1999-250574		19990216		
	US 1999-277466		19990326		
	WO 1999-US11448		19990521		
OS	MARPAT 132:23191				
AB	Peptides A0-A1-A2-A3-A4-A5-A6-A7-A8-A9-A10 (A0 is H or an acyl group; A10 is OH or an amino acid amide; A1-9 are amino acyl residues) or their pharmaceutically acceptable salts, esters, solvates, or prodrugs were prepd. for the treatment of angiogenesis. Thus, N-Ac-Sar-Gly-Val-D-Ile-Thr-Nva-Ile-Arg-Pro-NHEt was prepd. by the solid-phase method and assayed for in vitro angiogenic activity (87.3% at 20 nM and 76.9 at 10 nM).				
ST	peptide prepn antiangiogenic activity				
IT	Eye, disease (diabetic retinopathy; prepn. of peptide antiangiogenic drugs)				
IT	Eye, disease (macula, degeneration; prepn. of peptide antiangiogenic drugs)				
IT	Angiogenesis inhibitors Antiarthritics Antitumor agents Psoriasis (prepn. of peptide antiangiogenic drugs)				
IT	Peptides, preparation RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of peptide antiangiogenic drugs)				
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RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide antiangiogenic drugs)

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RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of peptide antiangiogenic drugs)

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RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Préparation); USES (Uses)

(prepn. of peptide antiangiogenic drugs)

IT 59-67-6, Nicotinic acid, reactions 79-09-4, Propionic acid, reactions 88-14-2, 2-Furoic acid 107-92-6, Butanoic acid, reactions 109-85-3, 2-Methoxyethylamine 138-59-0, Shikimic acid 142-62-1, Hexanoic acid, reactions 625-45-6, Methoxyacetic acid 2516-47-4, Cyclopropanemethanamine 3222-56-8, 2-Methylnicotinic acid 4442-85-7, 2-Cyclohexylethylamine 5292-21-7, Cyclohexylacetic acid 5913-13-3, 1-Cyclohexylethylamine 7154-73-6, 1-(2-Aminoethyl)pyrrolidine 16874-33-2, Tetrahydro-2-furoic acid 27578-60-5, 1-(2-Aminoethyl)piperidine 101711-55-1

RL: RCT (Reactant)

(prepn. of peptide antiangiogenic drugs)

RE.CNT 4

RE

- (1) Abbott Lab; WO 9741824 A 1997 HCAPLUS
- (2) Grace W R & Co; EP 0443404 A 1991 HCAPLUS
- (3) Univ Northwestern; WO 9316716 A 1993 HCAPLUS
- (4) Univ Northwestern; WO 9841542 A 1998 HCAPLUS

=> fil reg

FILE 'REGISTRY' ENTERED AT 08:52:53 ON 05 MAR 2001

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DICTIONARY FILE UPDATES: 4 MAR 2001 HIGHEST RN 325683-70-3

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

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Structure search limits have been increased. See HELP SLIMIT
for details.

=> d sqide can tot 137

L37 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2001 ACS

RN 251580-48-0 REGISTRY

CN L-Prolinamide, N-methylglycylglycyl-L-valyl-D-isoleucyl-L-threonyl-L-
norvalyl-L-isoleucyl-L-arginyl-N-ethyl-, bis(trifluoroacetate) (salt)
(9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 9

NTE modified

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uncommon	Nva-6	-	-	
modification	-	-	-	undetermined modification

SEQ 1 XGVITXIRP

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HITS AT: 1-9

MF C44 H81 N13 O10 . 2 C2 H F3 O2

SR CA

LC STN Files: CA, CAPLUS

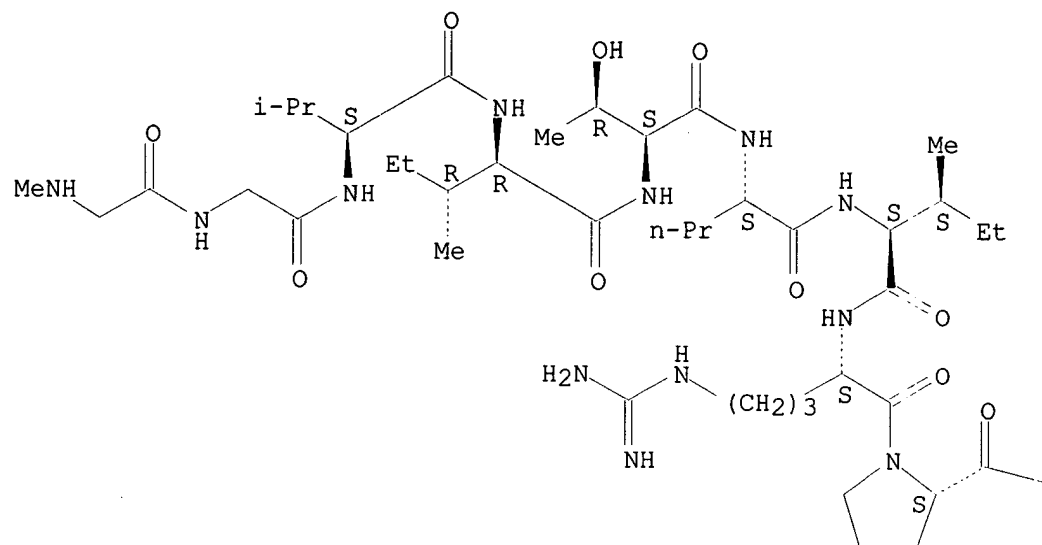
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CRN 251580-47-9

CMF C44 H81 N13 O10

Absolute stereochemistry.

PAGE 1-A



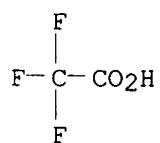
PAGE 1-B

NH₂Et

CM 2

CRN 76-05-1

CMF C2 H F3 O2



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:23191

L37 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2001 ACS

RN 251580-47-9 REGISTRY

CN L-Prolinamide, N-methylglycylglycyl-L-valyl-D-isoleucyl-L-threonyl-L-norvalyl-L-isoleucyl-L-arginyl-N-ethyl- (9CI) (CA INDEX NAME)

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 9

NTE modified

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SEQ 1 XGVITXIRP

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HITS AT: 1-9

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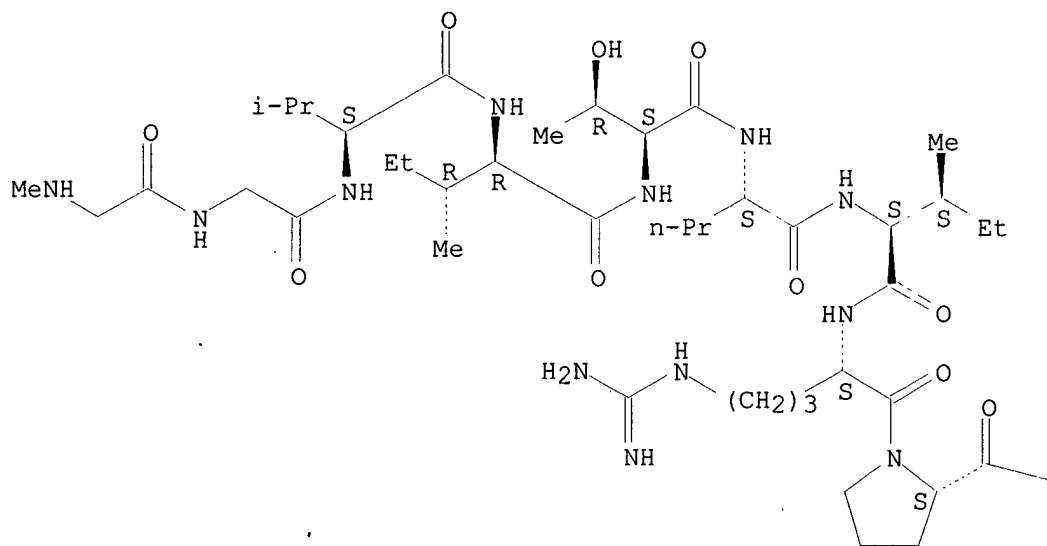
CI COM

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

NHET

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 132:23191